

CLAIMS

1. A gray soda-lime silicate glass composition, characterized in that it includes a coloring part
5 essentially consisting of the compounds below in contents varying within the following weight limits:

Fe ₂ O ₃ (total iron)	0.7 to 0.95%
CoO	50 to 80 ppm
NiO	400 to 700 ppm

or

Fe ₂ O ₃ (total iron)	0.7 to 0.95%
CoO	200 to 300 ppm
NiO	1500 to 1900 ppm

said composition being free of selenium, having a redox of 0.40 or less, and the glass having a light
10 transmission factor (T_{LA}) under illuminant A of 50% or less and an overall energy transmission factor (T_E) of less than 45%, these being measured for a thickness of 3.85 mm.

15 2. The composition as claimed in claim 1, characterized in that the redox does not exceed 0.30.

3. The composition as claimed in either of claims 1 or 2, characterized in that the light transmission
20 factor under illuminant A, T_{LA}, is greater than 5%.

4. The composition as claimed in one of claims 1 to 3, characterized in that the overall energy transmission factor T_E is less than 30%.

25 5. The composition as claimed in one of claims 1 to 4, characterized in that it furthermore includes less than 1%, preferably less than 0.5%, of coloring agents chosen from copper oxide, chromium oxide, titanium oxide, vanadium oxide and mixtures thereof.

6. The composition as claimed in claim 5, characterized in that the titanium oxide content is less than 0.5%, preferably less than 0.3%.

5 7. The composition as claimed in one of claims 1 to 6, characterized in that it includes, as coloring agents:

Fe ₂ O ₃ (total iron)	0.80 to 0.95%
CoO	50 to 80 ppm
NiO	400 to 700 ppm
Redox	0.20 to 0.30

the glass having a light transmission factor under illuminant A (T_{LA}) of around 30 to 45%.

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8. The composition as claimed in one of claims 1 to 6, characterized in that it includes, as coloring agents:

Fe ₂ O ₃ (total iron)	0.80 to 0.95%
CoO	200 to 300 ppm
NiO	1500 to 1900 ppm
Redox	0.20 to 0.30

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the glass having a light transmission factor under illuminant A (T_{LA}) of around 6 to 12%.

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9. The composition as claimed in one of claims 1 to 8, characterized in that it consists of a glass matrix comprising the following constituents (in percentages by weight):

SiO ₂	64 - 75%
Al ₂ O ₃	0 - 5%
B ₂ O ₃	0 - 5%
CaO	5 - 15%
MgO	0 - 10%
Na ₂ O	10 - 18%
K ₂ O	0 - 5%
BaO	0 - 5%.

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10. A glass sheet formed by the float process on a bath of molten metal, with a chemical composition as defined by any one of claims 1 to 9.

5 11. The glass sheet as claimed in claim 10, characterized in that it has the following chromatic coordinates measured under illuminant D₆₅, for a thickness of 3.85 mm:

L* varies from 30 to 80

10 a* varies from -15 to 0

b* varies from -20 to 25.

12. A thermally toughened glass sheet with the composition as claimed in any one of claims 1 to 9 and 15 having the following chromatic coordinates measured under illuminant D₆₅, for a thickness of 3.85 mm:

a* varies from -10 to 0

b* varies from -20 to +15, preferably from -5 to +5.

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13. The glass sheet as claimed in one of claims 10 to 12, characterized in that it furthermore includes at least one layer of at least one metal oxide for reflecting infrared radiation.

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14. A window, especially an automobile window, characterized in that it comprises at least one glass sheet as claimed in one of claims 10 to 13.